

Nucleotide sequence of coding sequence encoding hTid1L:

 ${\tt ATG} getgegeggtgetceaeaegetggttgetggttgtggggaeeeegeggetgeeggetatategggtagagggeeggetgeeggetatategggtagagggeeggetgeeggetgeeggetgeeggetgeeggetgeeggetgeeggetgeeggetgeegggtagaggggeeggetgeeggetgeegggetgeegggtagagggggeeggetgeeggetgeeggetgeegggtagagggggeeggetgeeggetgeeggetgeegggtagagggggeeggetgeeggetgeegggetgeegggtagagggggaegeegggetgee$ ccggccgcccagggagggcgtggtgggggcatggctgagccgcaagctgagcgtccccgcctttgcgtcttccctgacct cttgcggcccccgagcgctgctgacattgagacctggtgtcagccttacaggaacaaaacataaccctttcatttgtact agagatcaagaaagcctattatcagcttgccaagaagtatcaccctgacacaaataaggatgatcccaaagccaaggaga agttctcccagctggcagaagcctatgaggttttgagtgatgaggtgaagaggaagcagtacgatgcctacggctctgca ggcttcgatcctggggccagoggctcccagcatagctactggaagggaggccccactgtggaccccgaggagctgttcag gaagatetttggcgagtteteateetettcatttggagatttecagaccgtgtttgateageeteaggaataettcatgg agttgacattcaatcaagctgcaaagggggtcaacaaggagttcaccgtgaacatcatggacacgtgtgagcgctgcaacaaggagttcaccgtgaacatcatggacacgtgtgagcgctgcaacaaggagttcaccgtgaacatcatggacacgtgtgagcgctgcaacaaggagttcaccgtgaacatcatggacacgtgtgagcgctgcaacaaggagttcaccgtgaacatcatggacacgtgtgagcgctgcaacaaggagttcaccgtgaacatcatggacacgtgtgagcgctgcaacaaggagttcaccgtgaacatcatggacacgtgtgagcgctgcaacaaggagttcaccgtgaacatcatggacacgtgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacgtgaacatcatggacacatcatggacacatcatggacacatcatggacacatcatggacacatcatggacacatcatggacatgacatcatggacatgacatggacatggcaaggggaacgagcccggcaccaaggtgcagcattgccactactgtggcggctccggcatggaaaccatcaacacagg cccttttgtgatgcgttccacgtgtaggagatgtggtggccgcgcgctccatcatcatcatcgccctgtgtggtctgcaggg gagcaggacaagccaagcagaaaaagcgagtgatgatccctgtgcctgcaggagtcgaggatggccagaccgtgaggatg cctgtgggaaaaagggaaattttcattacgttcagggtgcagaaaagccctgtgttccggagggacggcagacatcca ctccgacctctttatttctatagctcaggctcttcttgggggaacagccagagccagggcctgtacgagacgatcaacg tacggagaccactacatccacatcaagatacgagttccaaagaggctaacgagccggcagcagagcctgatcctgagcta cgccgaggacgagacagatgtggaggggacggtgaacggcgtcaccctcaccagctctggtggcagcaccatggatagct ccgcaggaagcaaggctaggcgtgaggctgggggaggacgaggaggattcctttccaaacttaagaaaatgtttacctca

Nucleotide sequence of coding sequence encoding hTidlS:

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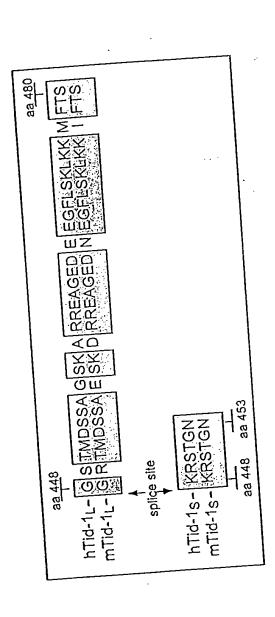
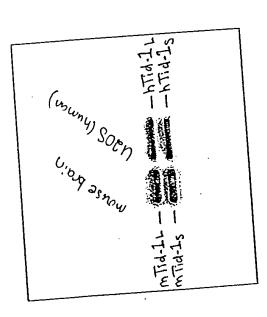
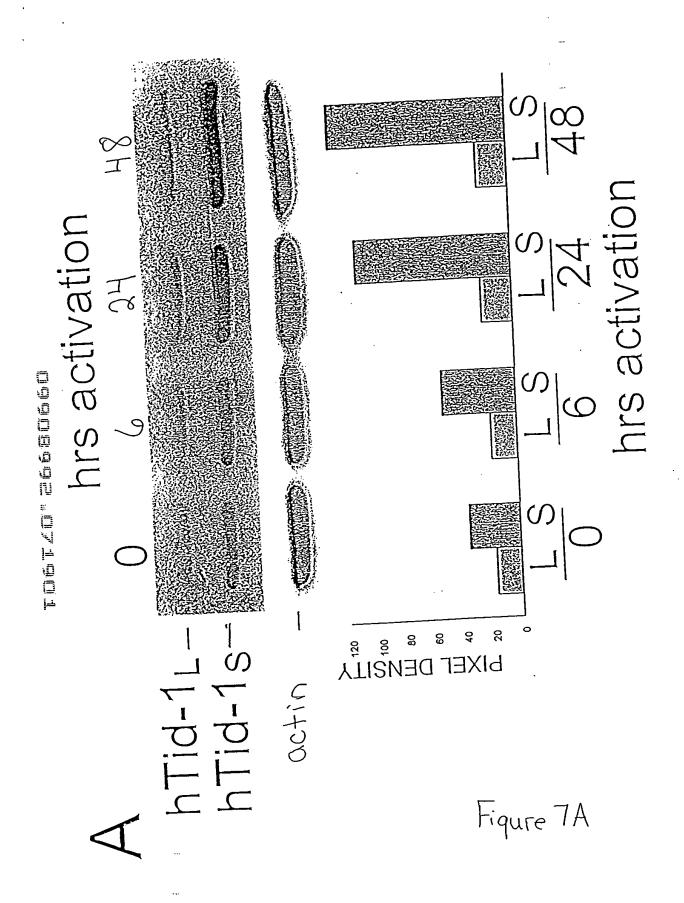


Figure 6





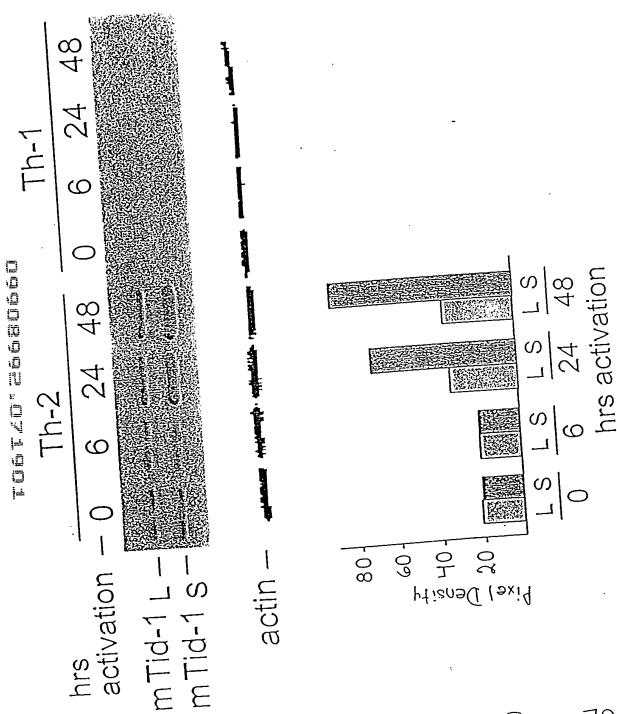


Figure 7C

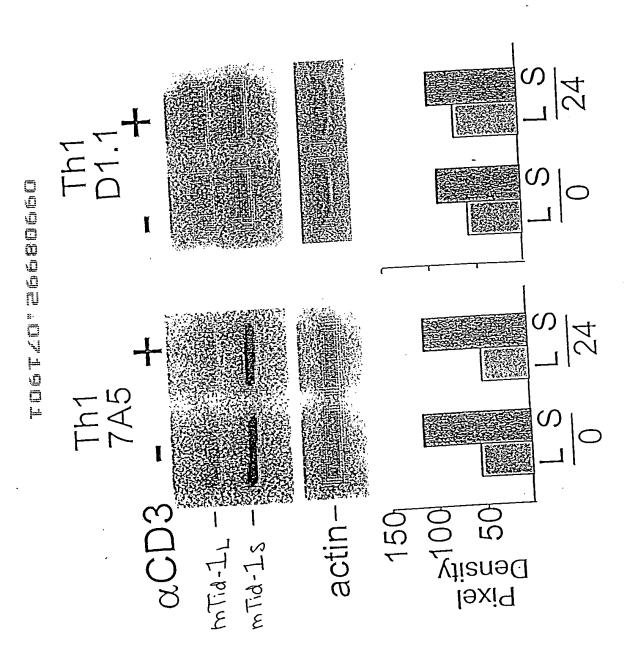
Hond protein. Figure 7D रू Tha/D10 80 ug protein HC 9 Th1/D5 mT:d-1L mT:d-1S

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mTid-1L-mTid-1S-



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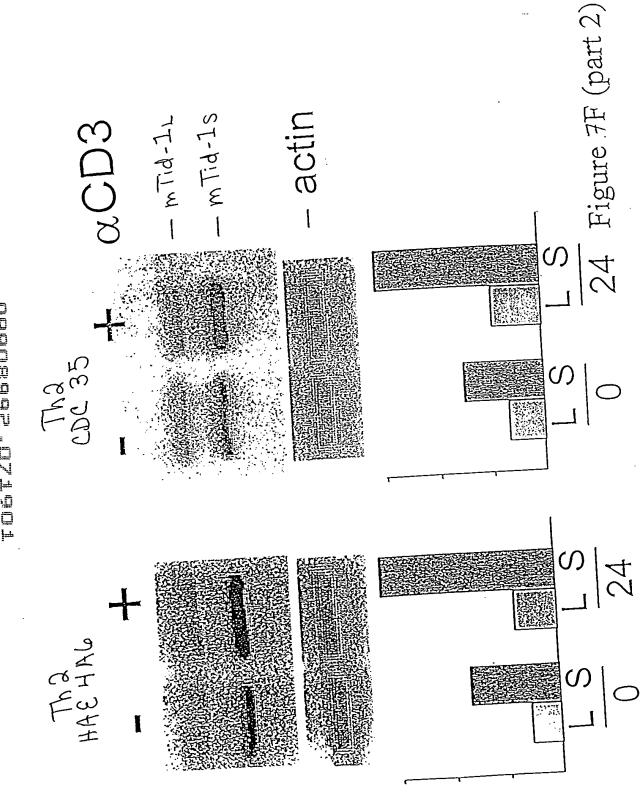


Figure 8

LOGIASSE "CZIOII

Amino acid sequence of mTid-1L:

MAAWCSPRWLRVAVGTPRLPAAAGRGVQQPQGGVVATSLCRKLCVSAFGLSMG AHGPRALLTLRPGVRLTGTKSFPFVCTTSFHTSASLAKDDYYQILGVPRNASQKDI KKAYYQLAKKYHPDTNKDDPKAKEKFSQLAEAYEVLSDEVKRKQYDAYGSAGF XXXXXXXKEFTVNIMDTCERCDGKGNEPGTKVQHCHYCGGSGMETINTGPFVMR STCRRCGGRGSIITNPCVVCRGAGQAKQKKRVTIPVPAGVEDGQTVRMPVGKREIF VTFRVQKSPVFRRTCADIHSDLFISIAQAILGGTAKAQGLYETINVTIPAGIQTDQKI RLTGKGIPRINSYGYGDHYIHIKIRVPKRLSSRQQNLILSYAEDETDVEGTVNGVTH TSTGGRTMDSSAESKDRREAGEDNEGFLSKLKKIFTS

Amino acid sequence of mTid-1S:

MAAWCSPRWLRVAVGTPRLPAAAGRGVQQPQGGVVATSLCRKLCVSAFGLSMG AHGPRALLTLRPGVRLTGTKSFPFVCTTSFHTSASLAKDDYYQILGVPRNASQKDI KKAYYQLAKKYHPDTNKDDPKAKEKFSQLAEAYEVLSDEVKRKQYDAYGSAGF XXXXXXKEFTVNIMDTCERCDGKGNEPGTKVQHCHYCGGSGMETINTGPFVMR STCRRCGGRGSIITNPCVVCRGAGQAKQKKRVTIPVPAGVEDGQTVRMPVGKREIF VTFRVQKSPVFRRTCADIHSDLFISIAQAILGGTAKAQGLYETINVTIPAGIQTDQKI RLTGKGIPRINSYGYGDHYIHIKIRVPKRLSSRQQNLILSYAEDETDVEGTVNGVTH TSTGKRSTGN

- cox2 Pancreas Heart VievO Zestis Spleen Kiqueλ 6սող Brain Liver

Expression of the TID1 proteins in different tissues - cox2 is a marker for mitochondria

Deader "Ulada